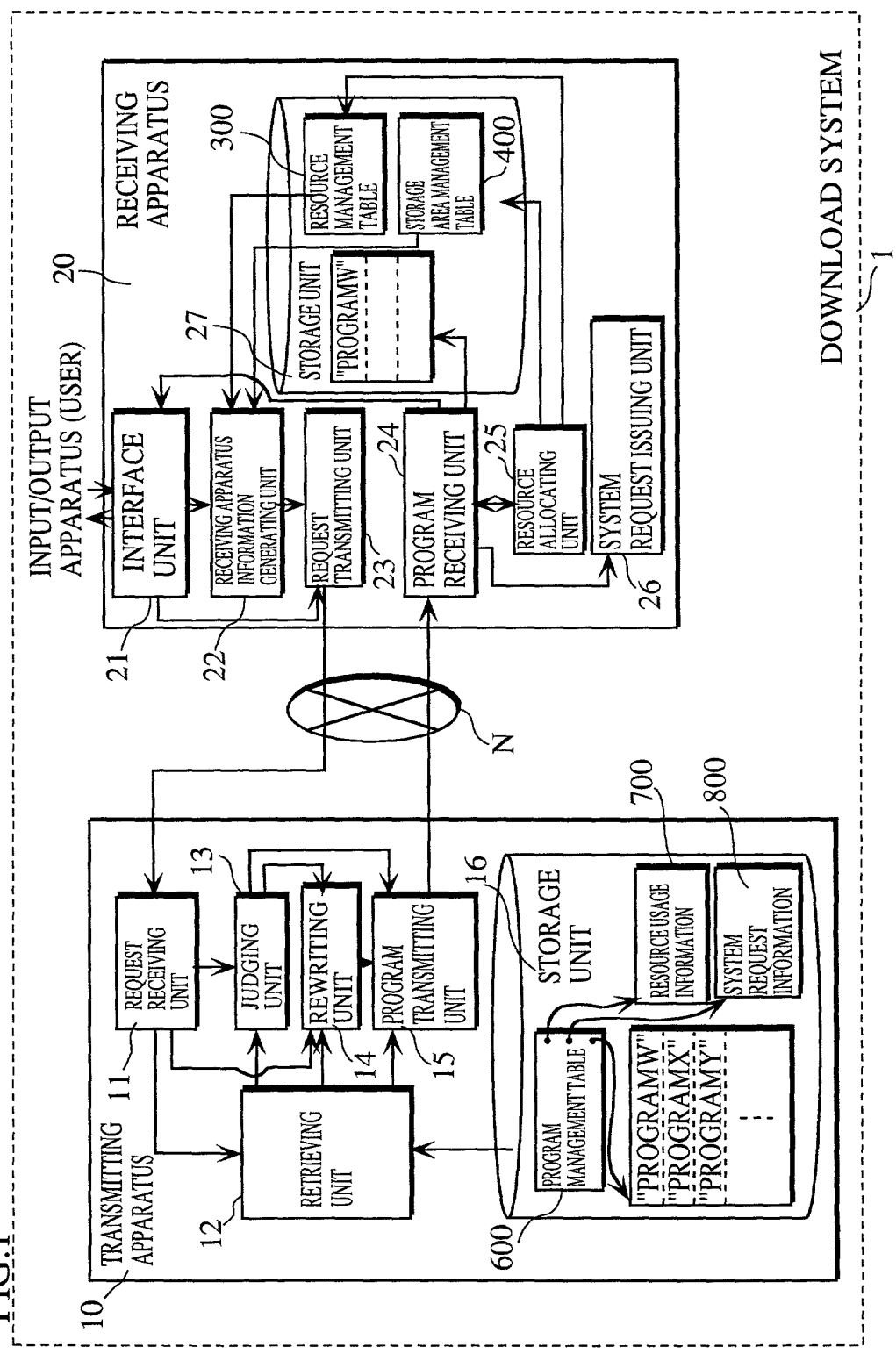


FIG. 1



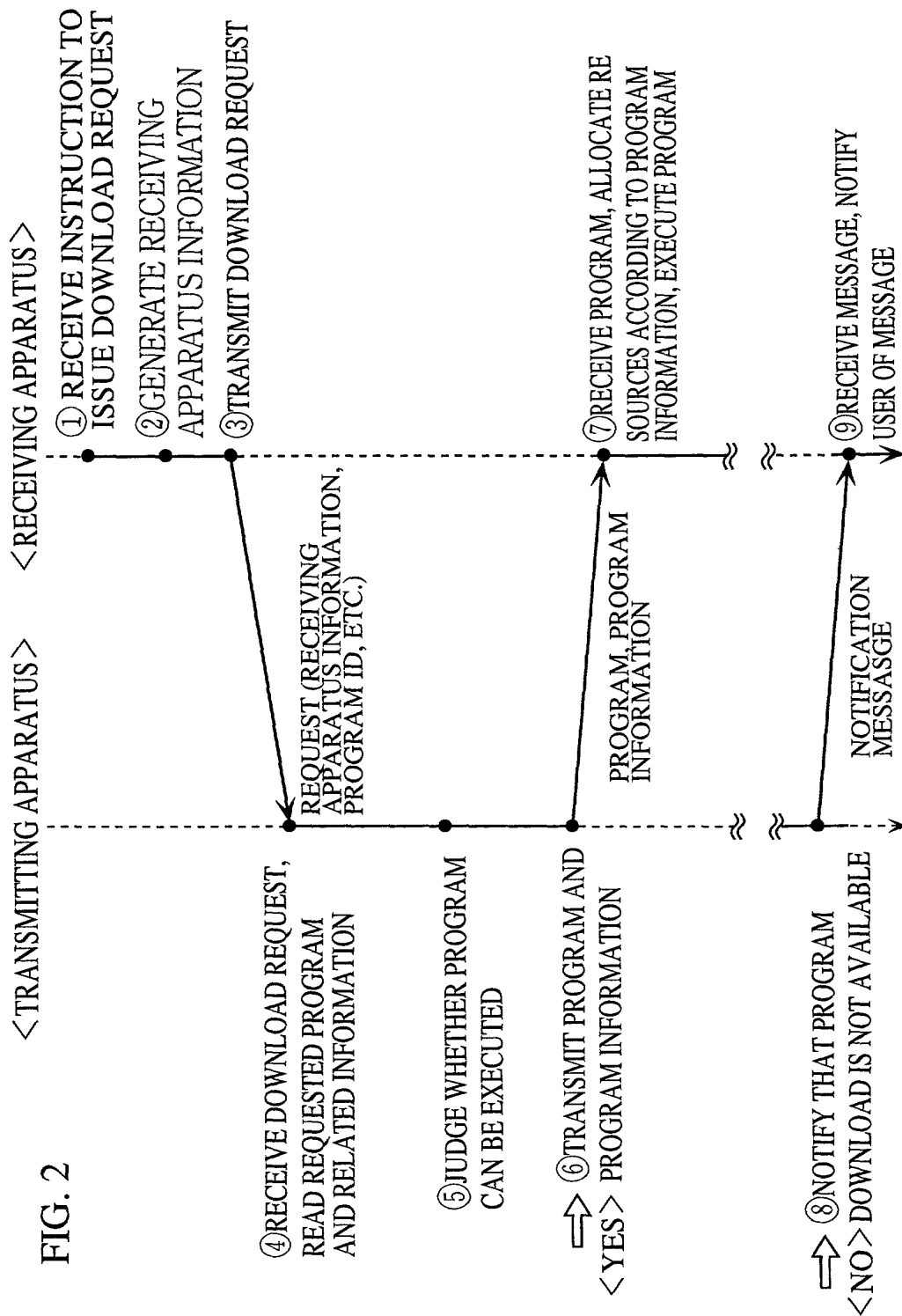


FIG. 3

300

RESOURCE TYPE	RESOURCE ID	USE STATE	ALLOCATED AREA
task	1	USED	0x10000
task	2	UNUSED	0x5000
task	3	UNUSED	0x4000
mempool	1	USED	0x400
mempool	2	UNUSED	0x400

310 320 330 340

301 302 303 304 305

FIG. 4

400					
AREA ID	STARTING ADDRESS	USE STATE	ALLOCATED AREA	PROGRAM ID	
0	0x48000000	USED	0x00300000	w	401
1	0x48300000	UNUSED	0x00800000		402
2	0x48B00000	UNUSED	0x00400000		403
					450
					440
					430
					420
					410

FIG. 6

600				
PROGRAM ID	PROGRAM ADDRESS	RESOURCE USAGE INFORMATION ADDRESS	SYSTEM REQUEST INFORMATION ADDRESS	
W	0x10000000	0x20000000	0x30000000	611
X	0x10013000	0x20000010	0x30000010	
Y	0x10030000	0x20000020	0x30000020	
Z	0x10060000	0x20000030	0x30000030	
	602	603	604	601

FIG. 7

700

RESOURCE TYPE	RESOURCE ID	AREA SIZE
task	A	0x3000
task	B	0x4000
mempool	C	0x300
STORAGE AREA SIZE		0x500000

711 712 713

710

720

FIG. 8

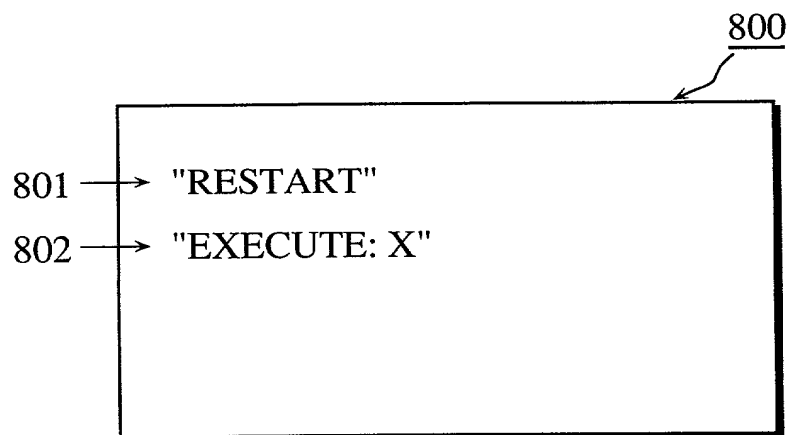


FIG. 9

900

RESOURCE TYPE	TRANSMISSION-SIDE RESOURCE ID	RECEPTION-SIDE RESOURCE ID
task	A	2
task	B	3
mempool	C	2

901 902 903

FIG. 10

1000

PROGRAM ID		X	1010
STORAGE AREA SIZE		0x500000	1020
AREA ID		1	1030
RESOURCE TYPE	RESOURCE ID	1040	
task	2		
task	3		
mempool	2		

FIG.11A

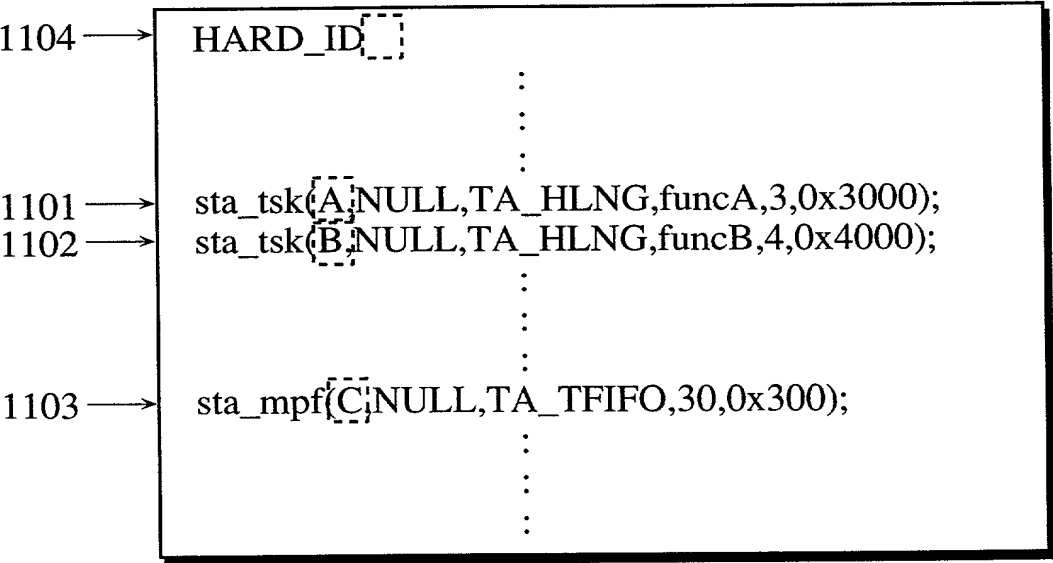


FIG.11B

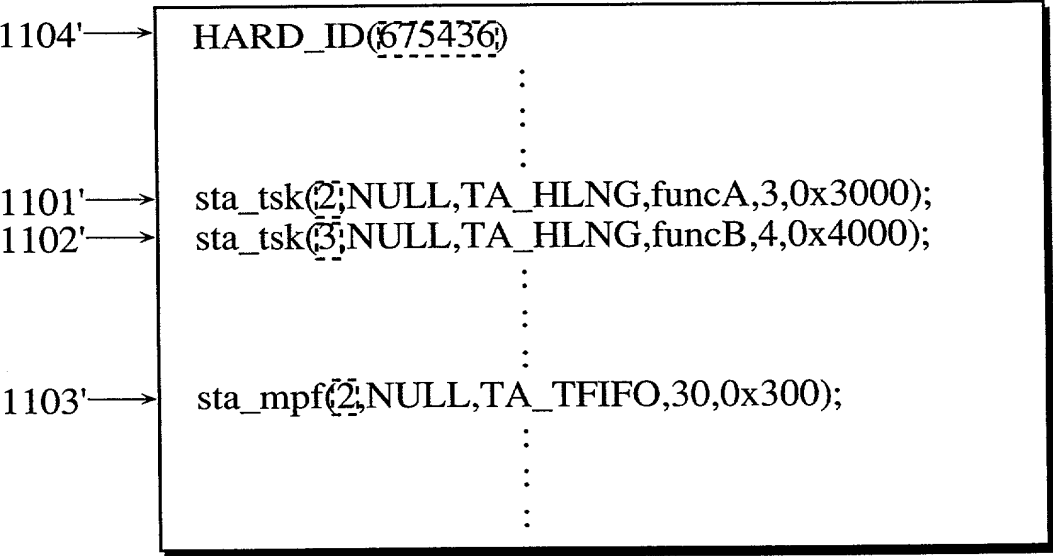


FIG. 12

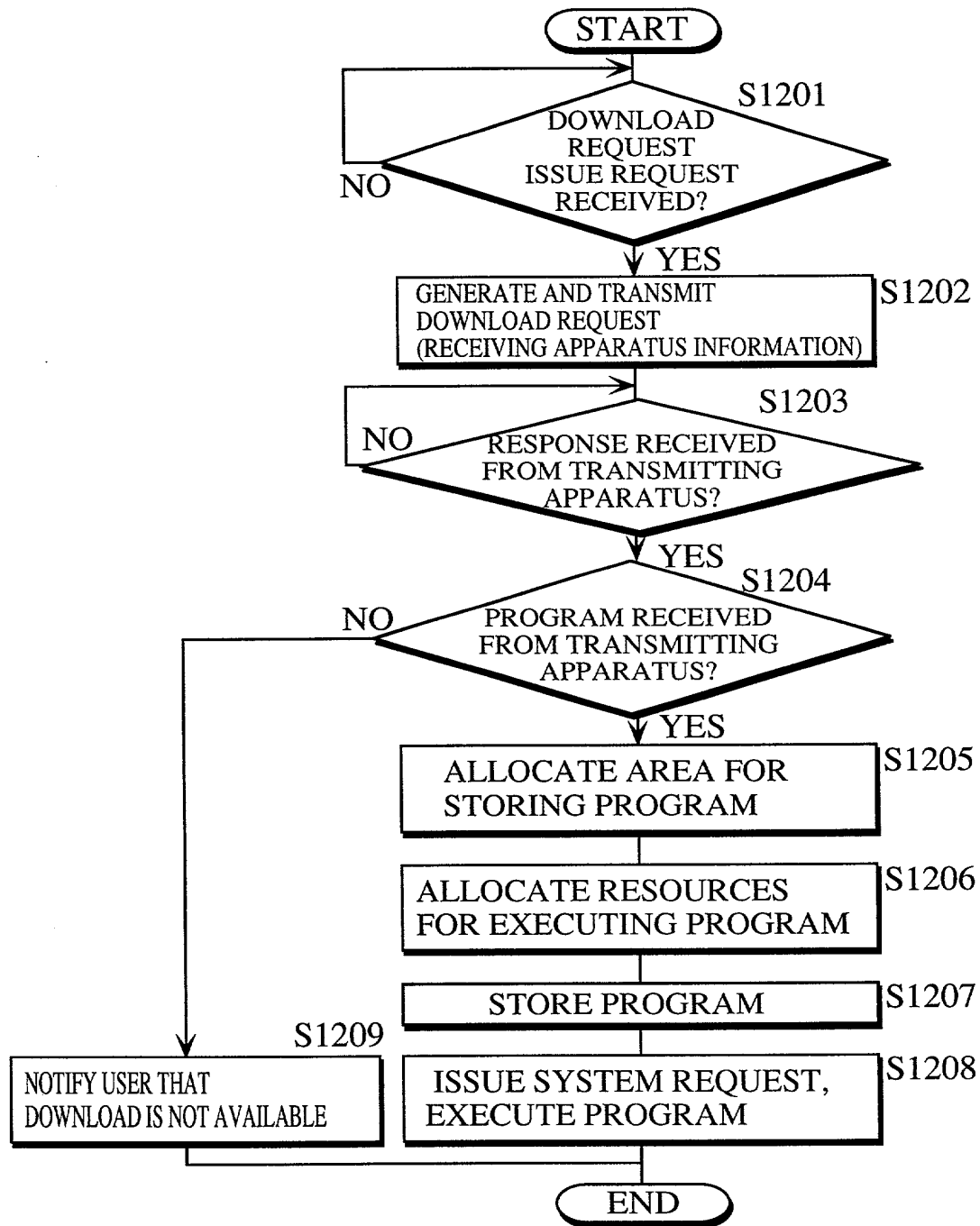


FIG. 13

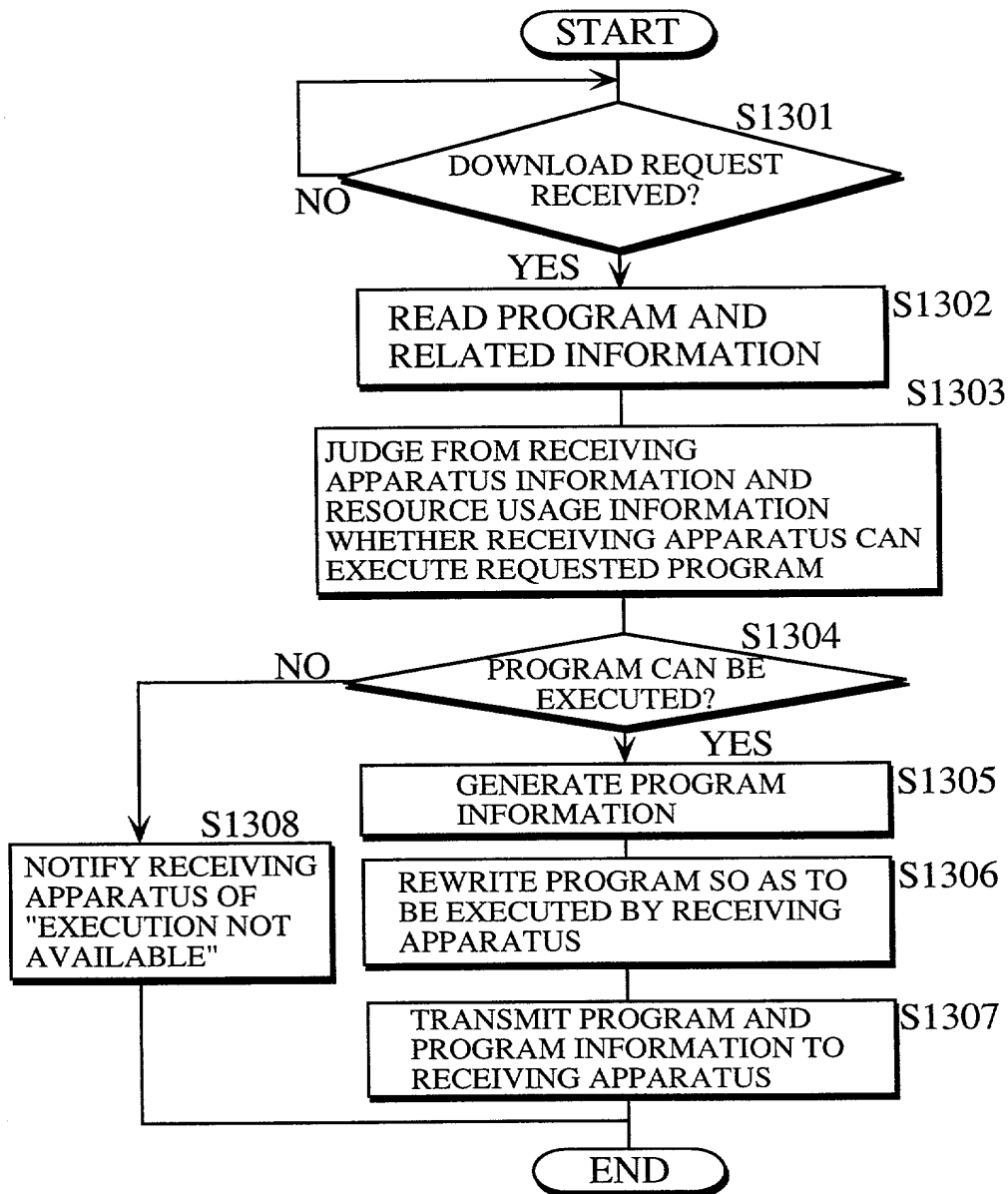


FIG.14A

400

AREA ID	STARTING ADDRESS	USE STATE	ALLOCATED AREA	PROGRAM ID
0	0x48000000	USED	0x00300000	w
1	0x48300000	UNUSED	0x00800000	
2	0x48B00000	UNUSED	0x00400000	

1401



FIG.14B

400

AREA ID	STARTING ADDRESS	USE STATE	ALLOCATED AREA	PROGRAM ID
0	0x48000000	USED	0x00300000	w
1	0x48300000	USED	0x00500000	x
2	0x48800000	UNUSED	0x00300000	
3	0x48B00000	UNUSED	0x00400000	

1401

1402

Figure 1 consists of 12 histograms arranged horizontally, labeled x_1 through x_{12} . Each histogram shows the frequency (count) of values for x_k ranging from 0 to 10. The distributions are roughly bell-shaped and centered around 5. The peak count increases from 10 for x_1 to 12 for x_{12} .

300



300

FIG. 16

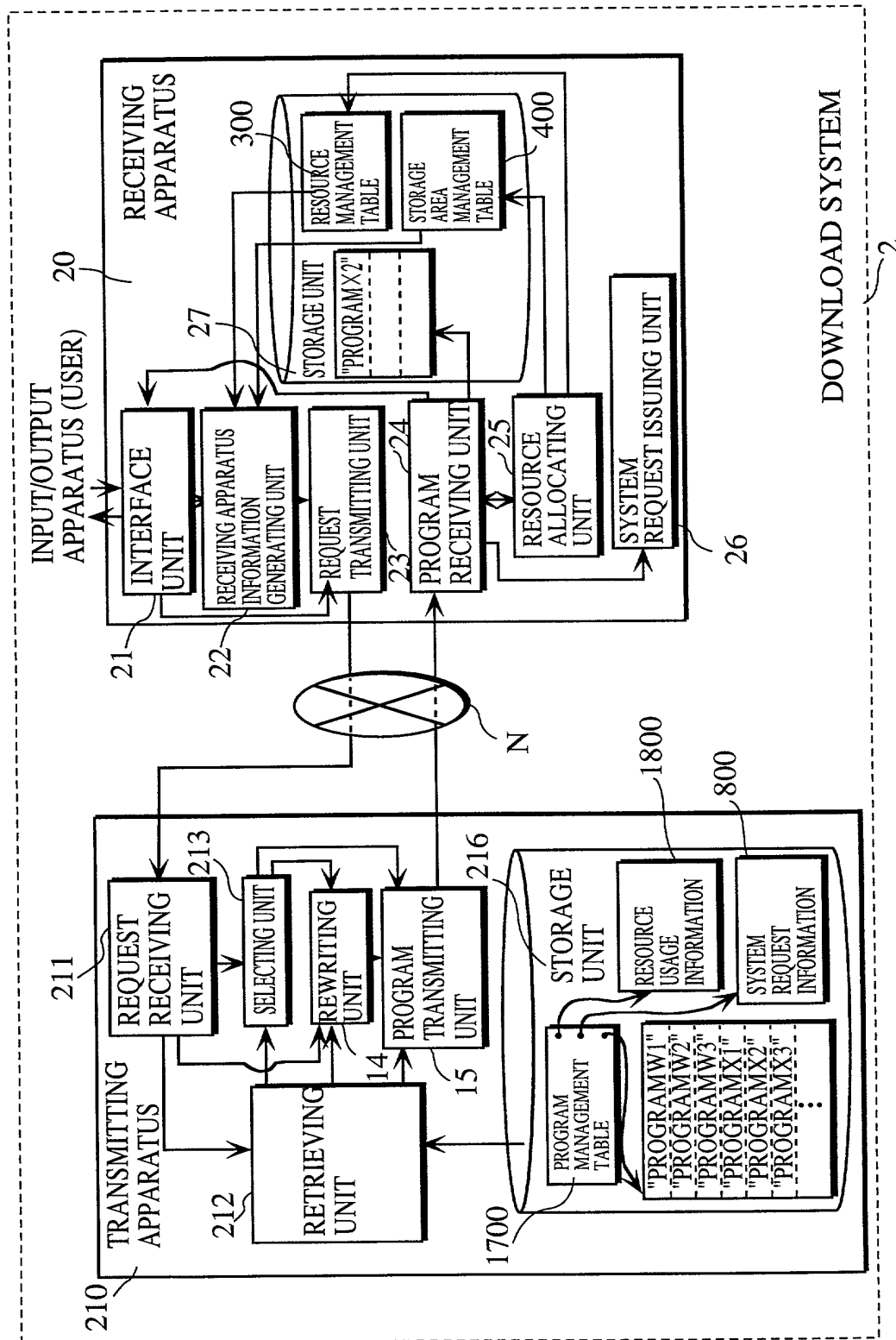


FIG. 17

PROGRAM ID		PROGRAM ADDRESS	RESOURCE USAGE INFORMATION ADDRESS	SYSTEM REQUEST INFORMATION ADDRESS
REQUEST ID	STORAGE ID			
W	w1	0x10000000	0x20000000	0x30000000
	w2	0x10013000	0x20000010	0x30000010
	w3	0x10023000	0x20000020	0x30000020
X	x1	0x10100000	0x20000030	0x30000030
	x2	0x10600000	0x20000040	0x30000040
	x3	0x10A00000	0x20000050	0x30000050
Y	y1	0x11000000	0x20000060	0x30000060
	y2	0x11050000	0x20000070	
	z3			
1711	1712	602	603	604
1710				

FIG. 18A

711 712 713 1801

RESOURCE TYPE	RESOURCE ID	AREA SIZE
task	A	0x3000
task	B	0x8000
mempool	C	0x300
PROGRAM AREA SIZE		0x500000

FIG. 18B

711 712 713 1802

RESOURCE TYPE	RESOURCE ID	AREA SIZE
task	A	0x3000
task	B	0x8000
PROGRAM AREA SIZE		0x400000

FIG. 18C

711 712 713 1803

RESOURCE TYPE	RESOURCE ID	AREA SIZE
task	A	0x3000
task	B	0x4000
mempool	C	0x300
PROGRAM AREA SIZE		0x500000

FIG. 19

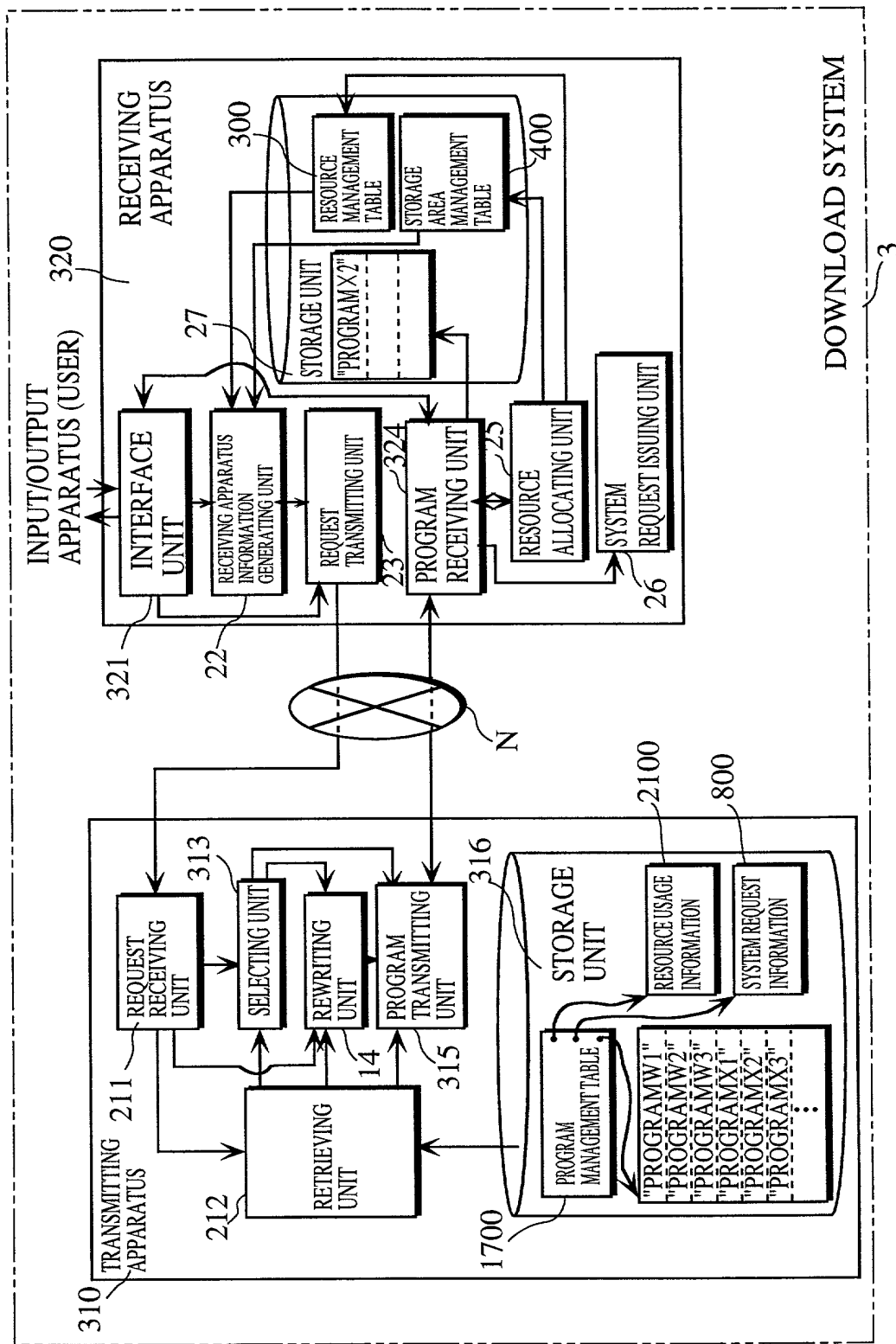


FIG.20

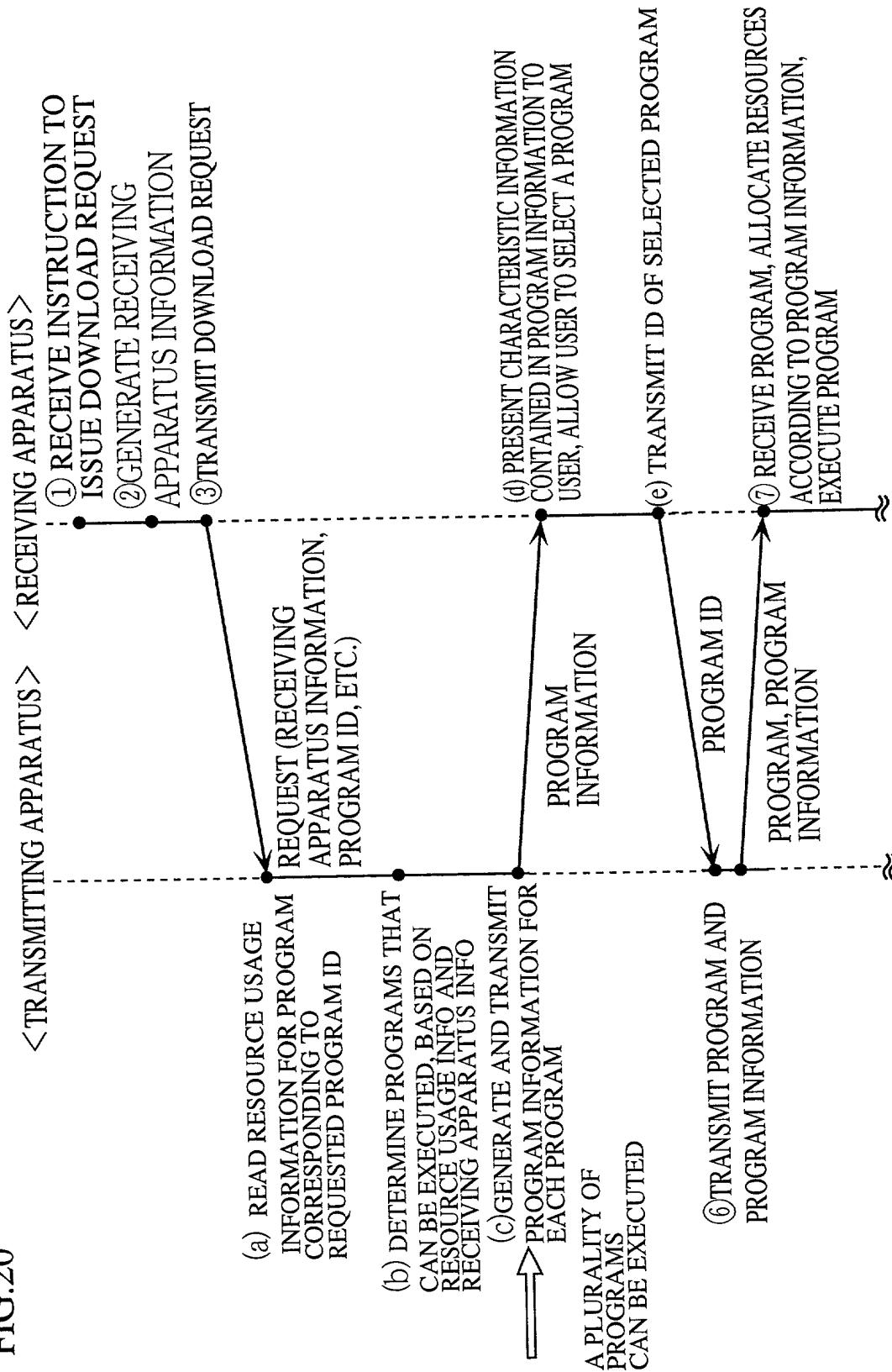


FIG. 21

FIG. 21

	711	712	713	2100
710	RESOURCE TYPE	RESOURCE ID	AREA SIZE	
	task	A	0x3000	
	task	B	0x4000	
	mempool	C	0x300	
720	PROGRAM AREA SIZE		0x500000	
2110	CHARACTERISTIC INFORMATION	"REQUIRES LARGE AREA AND RESOURCE BUT PROCESSES FAST"		

FIG. 22

PROGRAM ID		x3	← 2210
STORAGE AREA SIZE		0x500000	← 1020
AREA ID		1	← 1030
RESOURCE TYPE	RESOURCE ID	} 1040	
task	2		
task	3		
mempool	2		
CHARACTERIS TIC INFORMATION	"REQUIRES LARGE AREA AND RESOURCE BUT PROCESSES FAST"		← 2250

FIG. 23

2310

2300

PROGRAM NUMBER

1. (x2)
2. (x3)

CHARACTERISTIC

"REQUIRES SMALL AREA AND RESOURCE BUT PROCESSES SLOWLY"
"REQUIRES LARGE AREA AND RESOURCE BUT PROCESSES FAST"

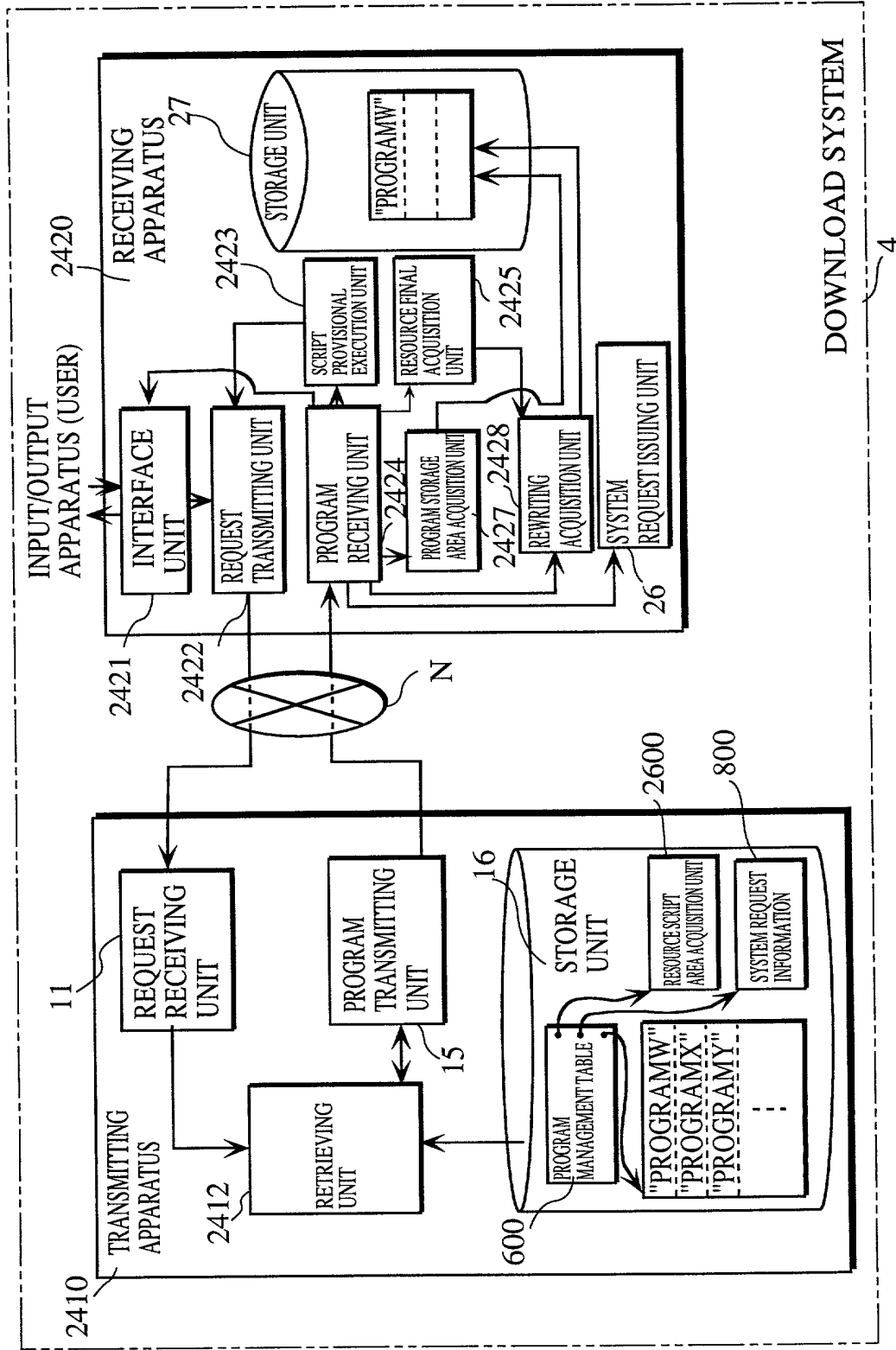
2320

2330

ENTER

SELECT PROGRAM NUMBER

FIG. 24



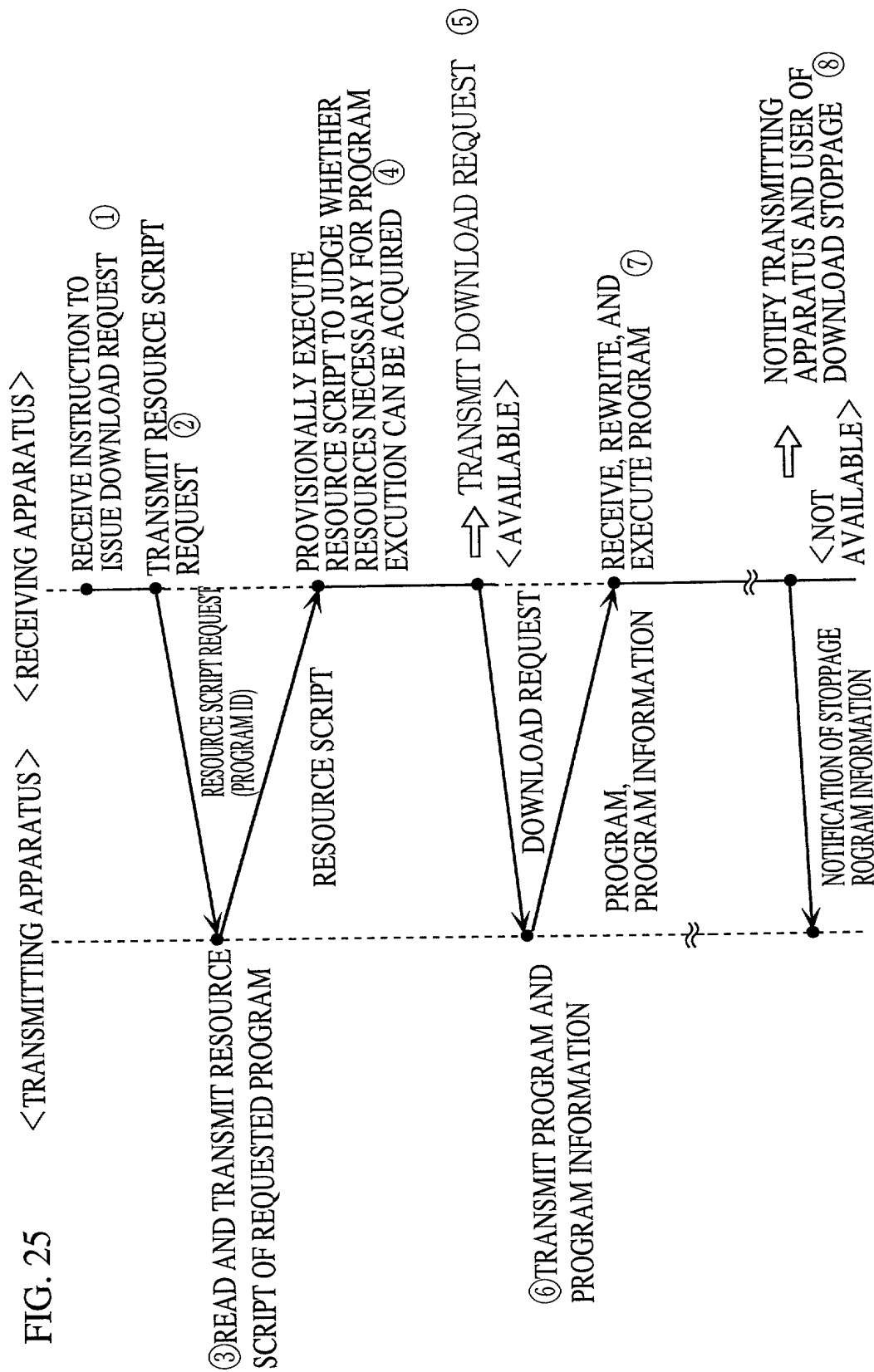


FIG. 26

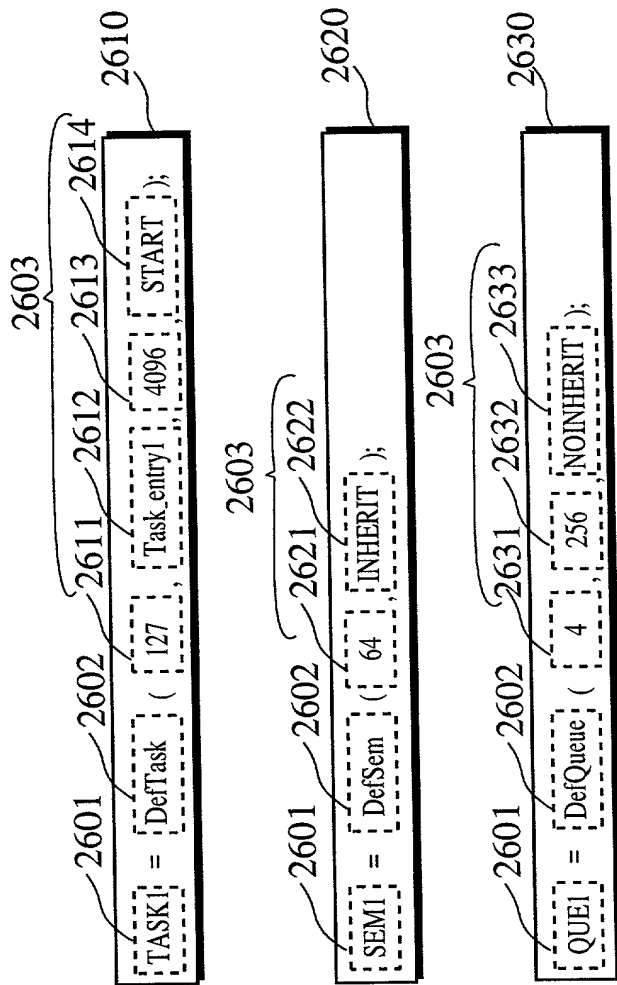


FIG. 27

2700		
RESOURCE NAME COLUMN	RESOURCE ID COLUMN	RESOURCE ADDRESS COLUMN
TASK 1	2	0x50002F00 ← 2701
SEM 1	3	0x50003F00 ← 2702
QUE 1	4	0x50004F00 ← 2703

↑
2710

↑
2720

↑
2730

FIG.28A

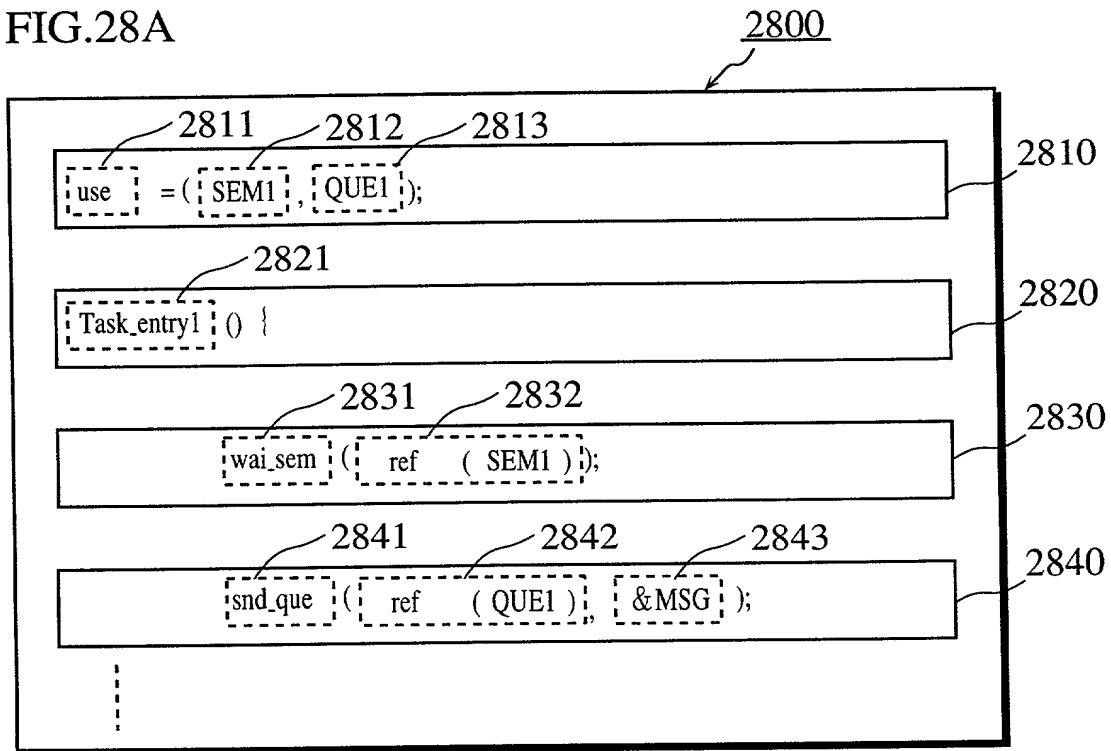


FIG.28B

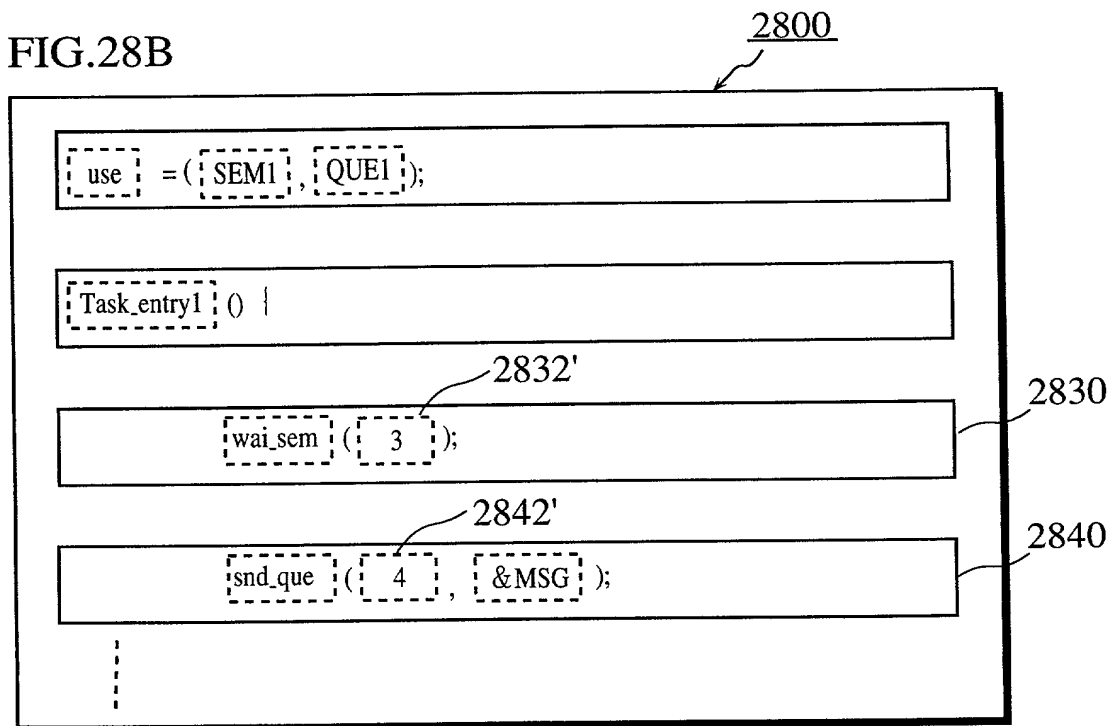


FIG. 29

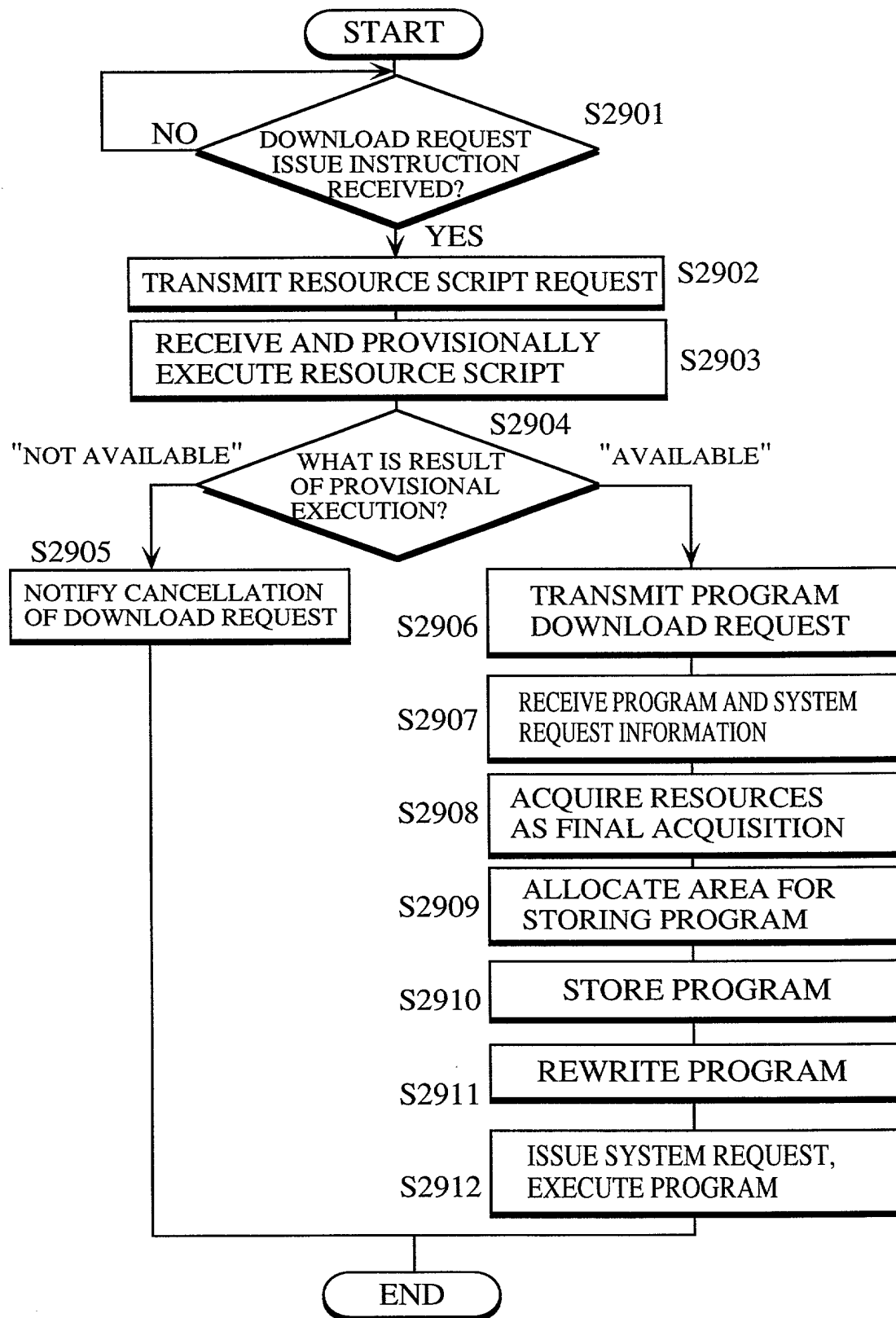


FIG.30

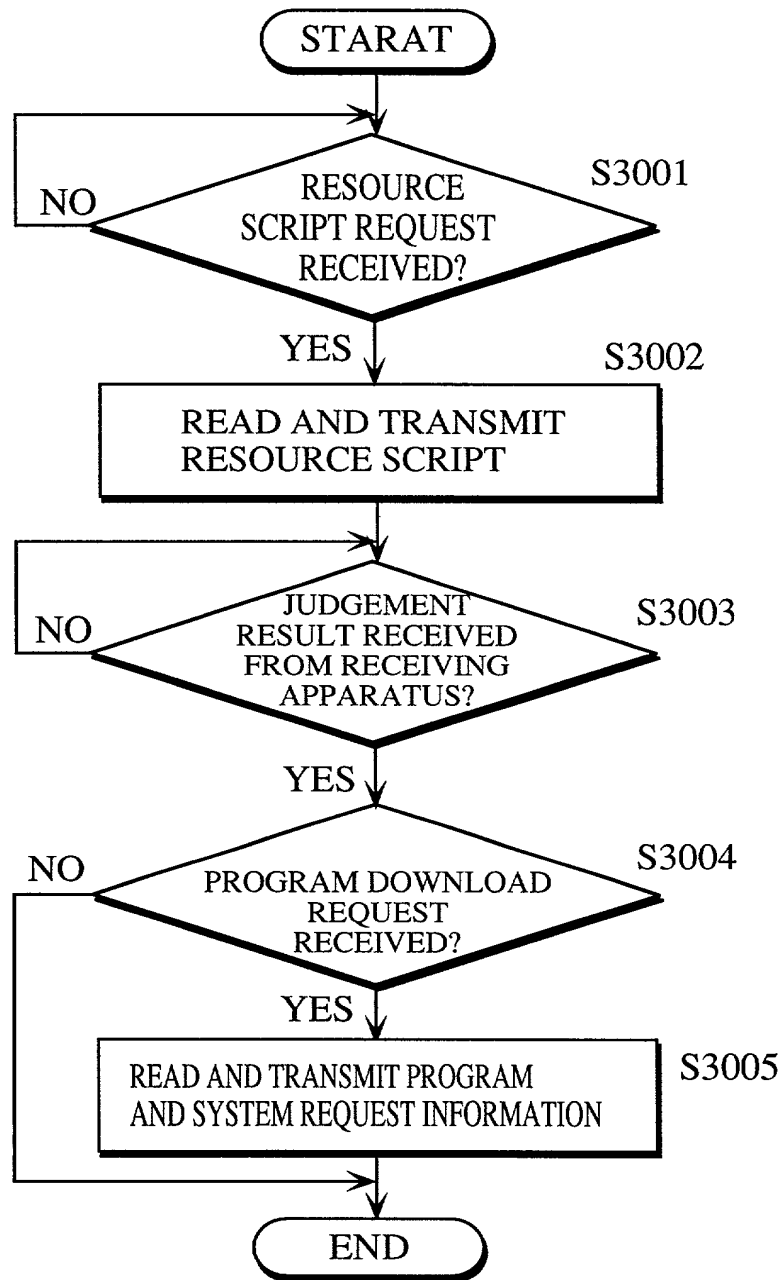


FIG. 31

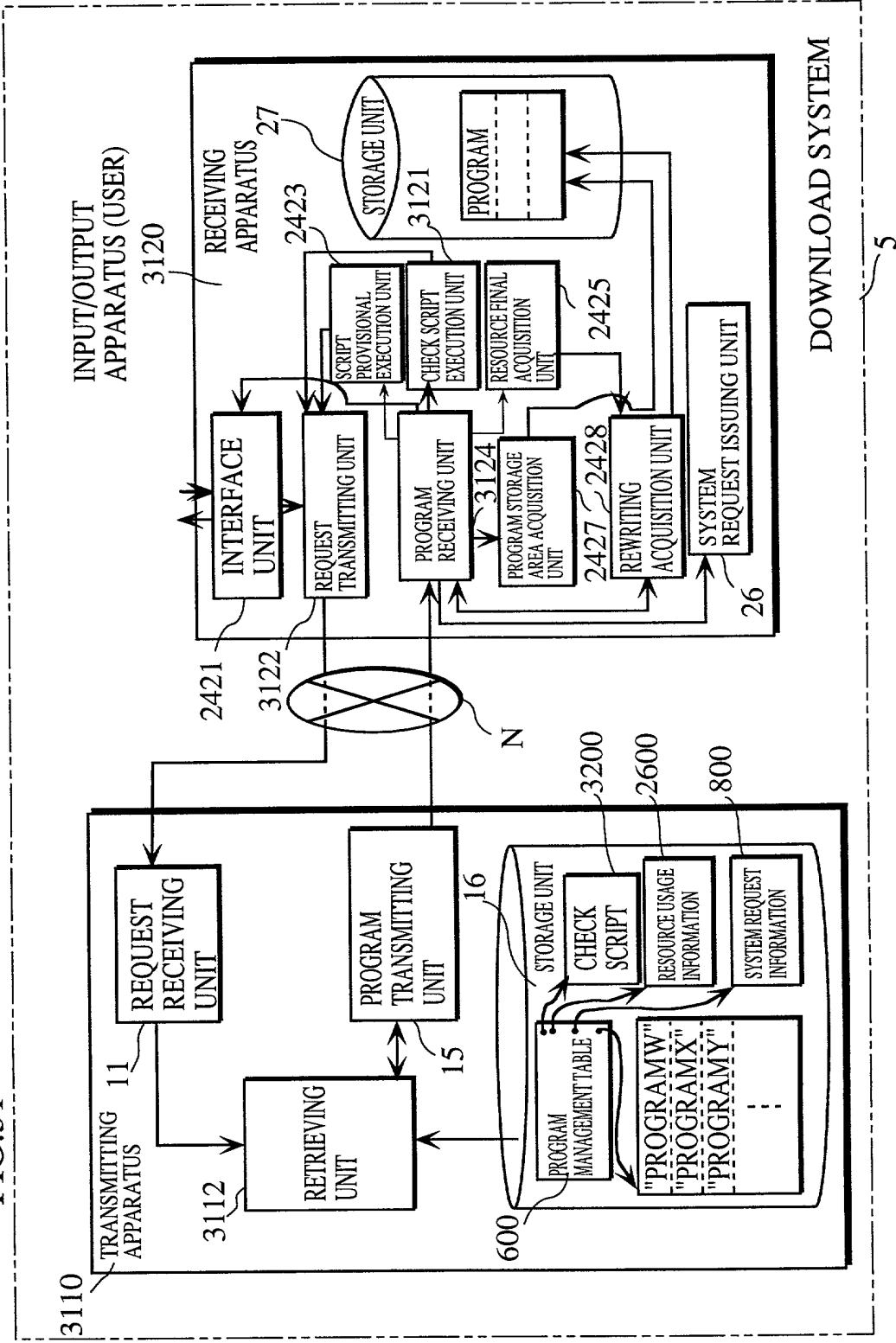


FIG. 32A

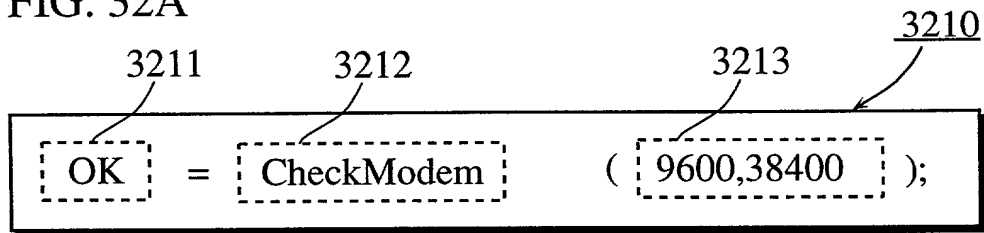


FIG. 32B

